PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: DONNA H. CATALFIO	PCT				
GALLAGUER & KENNEDY, P.A. 2575 EAST CAMELBACK ROAD PHOENIX AZ 85016-9225	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION				
PET DATE 12-20-75					
18	Date of mailing 20 OCT 2005				
Applicant's or agent's file reference /-20-06	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US05/14514	International filing date (day/month/year) 27 April 2005 (27.04.2005)				
Applicant ARIZONA BOARD OF REGENTS					
1. The applicant is hereby notified that the international sear have been established and are transmitted herewith.	rch report and the written opinion of the International Searching Authority				
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	: aims of the international application (see Rule 46):				
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international				
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No	D, 34 chemin des Colombettes .: +41 22 740 14 35				
For more detailed instructions, see the notes on the a	accompanying sheet.				
2. The applicant is hereby notified that no international sear Article 17(2)(a) to that effect and the written opinion of the	ch report will be established and that the declaration under he International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) addi	tional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has be request to forward the texts of both the protest and t	en transmitted to the International Bureau together with the applicant's he decision thereon to the designated Offices.				
· — ·	plicant will be notified as soon as a decision is made.				
4. Reminders					
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.					
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.					
Name and mailing address of the ISA/US	Authorized officer				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Wayne Langel				
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 703-872-9206				
Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet)				

NOTESTO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended

During the international phase the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered When? as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of How? one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments.?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers. claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."

- [Where onginally there were 14 claims and the amendments consist in cancelling some claims and in "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- *Claims)-10 cmchanged: claims 11 to 13, 18 and 19 cancelled: claims 14, 15 and 16 replaced by amended [Where various kinds of amendments are made]: claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

-Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under

The statement will be published with the international application and the amended claims.

It must be in the Language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letser indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

II. at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submutted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's amention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide, Volume !!.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. PCTUS05/14514 Applicant ARIZONA BOARD OF REGENTS This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) 4. With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the abstract, the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. With regard to the drawings to be published with the abstract is Figure No. 2 as suggested by the applicant. as a selected by this Authority, because the applicant failed to suggest a figure. as selected by this Authority, because the applicant failed to suggest a figure. as selected by this Authority, because this figure better characterizes the invention.	pplicant's or agent's file reference FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of the international application furnished to this Authority (Rule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) Unity of invention is lacking (See Box No. III) With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: **With regard to the abstract** With regard to the dastract** With regard to the dastract** A the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. With regard to the drawings, a. the figure of the drawings, to be published with the abstract is Figure No. 2 as suggested by the applicant. as selected by this Authority, because this figure better characterizes the invention.	• •					
This international search report consists of a total of the International Bureau. This international search report consists of a total of the International search report consists of a total of the Report are search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of the international application furnished to this Authority (Rule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. II) Unity of invention is lacking (See Box No. III) With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: With regard to the abstract, the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. With regard to the drawings. a. the figure of the drawings. a. the figure of the drawings to be published with the abstract is Figure No. 2 as suggested by the applicant. as selected by this Authority, because the applicant failed to suggest a figure. as selected by this Authority, because this figure better characterizes the invention.						
5. With regard to the abstract, the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority. 6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. 7 as suggested by the applicant. as selected by this Authority, because the applicant failed to suggest a figure. as selected by this Authority, because this figure better characterizes the invention.	This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. III) 4. With regard to the title,					
bnone of the figures is to be published with the abstract	5. With regard to the abstract, the text is approved as submitthe text has been established, may, within one month from 6. With regard to the drawings, a. the figure of the drawings to be passed as suggested by the as selected by this A	tted by the applicant. according to Rule 38.2(b), by this Authority the date of mailing of this international search ublished with the abstract is Figure No. 2 applicant. uthority, because the applicant failed to sugg	h report, submit comments to this Authority.			

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US05/14514

A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) US CL	: C09K 11/08 : 252/301.4R; 423/409,412				
	International Patent Classification (IPC) or to both na	tional classification and IPC			
	DS SEARCHED				
Minimum do	cumentation searched (classification system followed	by classification symbols)			
	52/301.4R; 423/409,412				
			·		
Documentation none	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched		
Electronic da	ta base consulted during the international search (nam	e of data base and, where practicable, search	h terms used)		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.		
A	US 5,134,102A (NADKARNI et al), 28 July 1992 (2		1-39		
A	US 6,296,956 B1 (HUNTER), 02 October 2001 (o2	10-01), see col.1, line 48 to col. 3, line	1-39		
А	62. US 6,656,615 B2 (DWILINSKI et al) 02 December	2003 (02-12-03), see col. 4, line 34 to	1-39		
	col. 6, line 55.	02 02) and and 1 limona 5 44	1.20		
A	US 6,531,072 B2 (SUDA et al), 11 March 2003 (11-	03-03), see col. 1, linesa 3-44.	1-39		
Further	documents are listed in the continuation of Box C.	See patent family annex.			
• S _I	pecial categories of cited documents:	"T" later document published after the interr date and not in conflict with the applicat			
"A" document particular	defining the general state of the art which is not considered to be of relevance	principle or theory underlying the invent	ion .		
"E" earlier app	olication or patent published on or after the international filing date	"X" document of particular relevance; the cla considered novel or cannot be considere when the document is taken alone			
	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the classifiered to involve an inventive step w	when the document is combined		
"O" document	referring to an oral disclosure, use, exhibition or other means	with one or more other such documents, obvious to a person skilled in the art	such combination being		
"P" document	"P" document published prior to the international filing date but later than the "&" document member of the same patent family				
	Date of the actual completion of the international search Date of mailing of the international search Date of mailing of the international search				
07 September 2005 (07.09.2005)					
Name and mailing address of the ISA/US Authorized officer					
	Stop PCT, Attn: ISA/US	Wayne Langel Mayne	a formed		
P.O.	P.O. Box 1450				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (January 2004)

INTERNATIONAL SEARCH REPORT	International application No. PCT/US05/14514	:
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Continuation of B. FIELDS SEARCHED Item 3:		
one		

Form PCT/ISA/210 (extra sheet) (January 2004)

PATENT COOPERATION TREATY

From the INTERNATION	ONAL SEARCH	IING AUTH	ORITY			MGV 0 1 20:
То:	CATALFIO				PCT	DIJEDITE 2-27
					ITTEN OPINION OF ONAL SEARCHING	
					(PCT Rule 43bis.1)	
-				Date of mailing (day/month/year)	20 OCT 2	005
Applicant's	or agent's file re	eference		FOR FURTHER	ACTION See paragraph 2 below	}
Internationa	l application No.	•	International filing date (day/month/year)	Priority date (day/month/	year)
PCT/US05/1	14514		27 April 2005 (27.04.200)5)	27 April 2004 (27.04.200	4)
International	l Patent Classific	cation (IPC)	or both national classificati	on and IPC		
	K 11/08 and US	Cl.: 252/301	.4R; 423/409,412			
Applicant						
ARIZONA I	BOARD OF RE	GENTS				
1. This op	inion contains in	dications rel	ating to the following items	s:		
	Box No. I	Basis of the	opinion			
	Box No. II	Priority				
	Box No. III	Non-establi	shment of opinion with reg	gard to novelty, inver	ntive step and industrial app	licability
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned s	easoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial oplicability, citations and explanations supporting such statement			
	Box No. VI	Certain doc	uments cited			
	Box No. VII	Certain defe	ects in the international app	onal application		
	Box No. VIII Certain observations on the international application					
If a der Internat Authori	ional Prelimina	itional prelim ry Examinin is one to be	g Authority ("IPEA") exc	cept that this does PEA has notified the	be considered to be a writ not apply where the app e International Bureau und cred.	licant chooses an
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
	ailing address o		3	Authorized officer	111	
Ma Co	ail Stop PCT, Atta mmissioner for Pa	: ISA/US itents		Wayne Langel	Mayre 4	fongel
P.O. Box 1450						

Facsimile No. (703) 305-3230

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

	INTERNATIONAL SEARCHING AUTHORITI	PC1/US05/14514			
Box N	o. I Basis of this opinion				
1. With was	regard to the language, this opinion has been established on the basis of th filed, unless otherwise indicated under this item.	e international application in the language in which it			
	This opinion has been established on the basis of a translation from the or which is the language of a translation furnished for the purposes of intern	iginal language into the following language, ational search (under Rules 12.3 and 23.1(b)).			
2. With	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
a.	type of material				
	a sequence listing				
	table(s) related to the sequence listing				
b.	format of material				
	in written format	·			
	in computer readable form				
c.	time of filing/furnishing				
	contained in international application as filed.				
	filed together with the international application in computer readal	ole form.			
	furnished subsequently to this Authority for the purposes of search				
3.	In addition, in the case that more than one version or copy of a sequenc or furnished, the required statements that the information in the subseq application as filed or does not go beyond the application as filed, as app	uent or additional copies is identical to that in the			
4 444	tional comments:				
4. Add	Honzi Comments.				

Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/14514

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	1-39	YES		
		NONE	NO		
Inventive step (IS)	Claims		YES		
	Claims	NONE	NO		
Industrial applicability (IA)	Claims	1-39	YES		
maismai approachity (2-)		NONE	NO		
2. Citations and explanations:					
Claims 1-39 meet novelty under PCT Article 33(2) be crystalline structure as well as the other properties as a	cause the pric	r art does not disclose doped metal nn 1, or the method of forming such p	uitride powders having a wurtzite powders as recited in claim 1.		
Claims 1-39 meet inventive step under PCT Article 33 having a wurtzite crystalline structure as well as the or recited in claim 1.	3(3) because the properties	ne prior art does not render obvious of as recited in claim 1, or the method	doped metal nitride powders of forming such powders as		
Claims 1-39 meet industrial applicability under PCT A metal nitride powder that exhibits a high luminescent	Article 33(4) b efficiency, as	ecause the invention relates to a met well as the doped metal nitride power	hod of producing in bulk a doped ler produced thereby.		
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Form PCT/ISA/237 (Box No. V) (January 2004)